DERWENT-ACC-NO: 1997-326215
DERWENT-WEEK: 199730


TITLE: Manufacturing method of switch element used especially in super conductor applications e.g. SMES - involving joining of both ends of high-temperature superconductor small body that are joined to electrode which corresponds to junction area layer than energizing cross section of other part

PATENT-ASSIGNEE: FURUKAWA ELECTRIC CO LTD[FURU]

PRIORITY-DATA: 1995JP-0309718 (November 6, 1995)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---|---|---|---|---|
| JP 09129939 A | May 16, 1997 | N/A | 007 | H01L 039/16 |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO | APPL-DATE |
|---|---|---|---|
| JP 09129939A | N/A | 1995JP-0309718 | November 6, 1995 |

INT-CL (IPC): H01H033/00; H01L039/16 ; H01L039/24

ABSTRACTED-PUB-NO: JP 09129939A
BASIC-ABSTRACT: The manufacturing method of switch element involves joining a pair of electrodes (32, 33) to both end faces in axial direction of high temperature superconductor small body (31). The layout of the high temperature superconductor small body is also performed axially.

Excitation means (34, 35) which applies magnetic field in orthogonal direction is provided. When applying magnetic field on the high-temperature superconductor small body when current flows through the

pair of electrodes,
the switching element generates a voltage between the pair of electrodes Both
ends of the high temperature superconductor small body are joined to the
electrode which corresponds to the junction area that is larger than the
energizing cross section of other part

ADVANTAGE - Provides practical super conductor power switch that has wide
applications.

CHOSEN-DRAWING: Dwg.4/8

TITLE-TERMS:
MANUFACTURE METHOD SWITCH ELEMENT SUPER CONDUCTOR APPLY JOIN END HIGH
TEMPERATURE SUPERCONDUCTING BODY JOIN ELECTRODE CORRESPOND JUNCTION AREA LAYER
CROSS SECTION PART

DERWENT-CLASS: U14 X13

EPI-CODES: U14-F02B; X13-B09;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1997-270348